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## NOTICE OF ALLOWANCE AND FEE(S) DUE

34610

7590

12/01/2009

KED & ASSOCIATES, LLP P.O. Box 221200 Chantilly, VA 20153-1200 EXAMINER

MILLER, BRANDON J

ART UNIT PAPER NUMBER

2617

DATE MAILED: 12/01/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/614,330	07/08/2003	Kwang-Il Jung	P-0486	7340	

TITLE OF INVENTION: SYSTEM AND METHOD FOR MULTI-ACCESSING RADIO COMMUNICATION DATA CALL

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/01/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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									(Depositor's name)	
									(Signature)	
									(Date)	
APPLICATION NO.	APPLICATION NO. FILING DATE		FIRST NAMED INVENT	ГOR		ATTORNEY DOCKET NO.		COI	CONFIRMATION NO.	
10/614,330 TITLE OF INVENTION	07/08/2003 N: SYSTEM AND METH	HOD FOR MULTI-ACCE	Kwang-Il Jung ESSING RADIO COM	MU	NICATION DATA	A CALI	P-0486		7340	
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUI	E FEE	TOTAL FEE(S) DUE		DATE DUE	
nonprovisional	NO	\$1510	\$300		\$0		\$1810		03/01/2010	
EXAM	MINER	ART UNIT	CLASS-SUBCLASS	ss						
MILLER, BRANDON J 2617			370-339000							
"Fee Address" inc PTO/SB/47; Rev 03-1 Number is required.  3. ASSIGNEE NAME A PLEASE NOTE: Un	AND RESIDENCE DATA	" Indication form	data will appear on th	ingle or a attor l be p r typ	rely, e firm (having as a gent) and the nammeys or agents. If printed.  e) tent. If an assign	memb es of u no nam	er a 2 o to e is 3	ocume	ent has been filed for	
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Publication Fee (No small entity discount permitted)			Payment by credit card. Form PTO-2038 is attached.							
Advance Order -	The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).									
a. Applicant claim	<b>atus</b> (from status indicate ns SMALL ENTITY stati	us. See 37 CFR 1.27.	☐ b. Applicant is no							
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This collection of inform an application. Confider submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 22:	ed application form to the cions for reducing this bu Virginia 22313-1450. DC	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th O NOT SEND FEES OR	on is required to obtain  1.14. This collection is depending upon the in e Chief Information Ol COMPLETED FORMS	or research	etain a benefit by t imated to take 12 i idual case. Any co r, U.S. Patent and D THIS ADDRESS	he publ minutes mment Traden S. SENI	ic which is to file (and to complete, including s on the amount of the lark Office, U.S. Dep O TO: Commissioner	I by th ig gath me you artmer for Pa	te USPTO to process) tering, preparing, and to require to complete at of Commerce, P.O. tents, P.O. Box 1450,	

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.			
10/614,330	07/08/2003	Kwang-II Jung	P-0486	7340			
34610 75	90 12/01/2009		EXAMINER				
KED & ASSOCI	ATES, LLP		MILLER, BRANDON J				
P.O. Box 221200			ART UNIT	PAPER NUMBER			
Chantilly, VA 201:	53-1200		2617				
		DATE MAILED: 12/01/2009					

# **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 726 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 726 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)
	10/614,330	JUNG, KWANG-IL
Notice of Allowability	Examiner	Art Unit
	BRANDON J. MILLER	2617
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED in to or other appropriate community. This application is sufficient to the community of	his application. If not included ication will be mailed in due course. <b>THIS</b>
1. This communication is responsive to <u>11/24/2009</u> .		
2. ☑ The allowed claim(s) is/are <u>13-20 and 23</u> .		
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority ur</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> <li>2.  Certified copies of the priority documents have</li> <li>3.  Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	e been received. e been received in Application	No
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the requirements
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give</li> </ol>		
<ul> <li>5. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2 to Paper No./Mail Date</li></ul>	son's Patent Drawing Review ( s Amendment / Comment or in .84(c)) should be written on the he header according to 37 CFR sit of BIOLOGICAL MATER	drawings in the front (not the back) of 1.121(d).  RIAL must be submitted. Note the
Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material  /Brandon J Miller/ Examiner, Art Unit 2617	6. ☐ Interview Sun Paper No./M 7. ☐ Examiner's A 8. ☒ Examiner's Si 9. ☐ Other /George Eng/	

### **DETAILED ACTION**

### Allowable Subject Matter

I. The following is an examiner's statement of reasons for allowance:

Claim 13 recites a data transmission system with a structure as defined in the specification (pages 6-14) including at least one personal computer; and a multi-access system including or coupled to a communication device, the multi-access system coupled to the personal computer through a Bluetooth connection; wherein data packets are transmitted between the personal computer and the communication device through the Bluetooth connection, wherein the data packets are sent from the communication device for transmission via an air interface to the Internet, wherein the multi-access system comprises: a system for receiving data packets from a plurality of computers; a packet call connection system for interfacing with one or more radio communication terminals; and a multi-access routing system for routing data packets from a multimedia system to the radio communication terminals according to a slot assignment method, and wherein the slot assignment method comprises: performing a one-on-one assignment for mapping each of the computers to a respective one of the radio communication terminals; and a common sharing method for allowing each computer to share the plurality of radio communication terminals for transmitting data packets.

The prior art teaches a data transmission system including at least one personal computer; and a multi-access system including or coupled to a communication device, the multi-access system coupled to the personal computer through a Bluetooth connection; wherein data packets are transmitted between the personal computer and the communication device through the

Bluetooth connection, wherein the data packets are sent from the communication device for transmission via an air interface to the Internet.

However, applicant's independent claim 13 comprises a particular structure, as recited above, that allows for a multi-access system comprising: a system for receiving data packets from a plurality of computers; a packet call connection system for interfacing with one or more radio communication terminals; and a multi-access routing system for routing data packets from a multimedia system to the radio communication terminals according to a slot assignment method, and wherein the slot assignment method comprises: performing a one-on-one assignment for mapping each of the computers to a respective one of the radio communication terminals; and a common sharing method for allowing each computer to share the plurality of radio communication terminals for transmitting data packets.

This is neither taught nor suggested by the prior art.

Claims 14-18 are allowable based on their dependence on independent claim 13.

Claim 19 recites a data transmission system with a structure as defined in the specification (pages 6-14) including at least one personal computer; and a multi-access system including or coupled to a communication device, the multi-access system coupled to the personal computer through a Bluetooth connection; wherein data packets are transmitted between the personal computer and the communication device through the Bluetooth connection, wherein the data packets are sent from the communication device for transmission via an air interface to the Internet, and wherein the multi-access system comprises: a system for receiving data packets from a plurality of computers; a packet-call connection system for interfacing with one or more

radio communication terminals; and a multi-access routing system for routing data packets from a multimedia system to the radio communication terminals according to a slot assignment methods and wherein the receiving system comprises: a plurality of physical data link control circuits provided in one-to-one correspondence with the plurality of computer, each of said physical data link control circuits controlling a corresponding physical data link; a TCP/IP control circuit to perform a TCP/IP protocol function on data packets transmitted from the plurality, of physical data link control circuits; a command/response control circuit for performing/responding to a command of the computers transmitted from the TCP/IP control circuit; and a data control circuit for sorting and buffering data transmitted from the TCP/IP control circuit.

The prior art teaches a data transmission system including at least one personal computer; and a multi-access system including or coupled to a communication device, the multi-access system coupled to the personal computer through a Bluetooth connection; wherein data packets are transmitted between the personal computer and the communication device through the Bluetooth connection, wherein the data packets are sent from the communication device for transmission via an air interface to the Internet.

However, applicant's independent claim 19 comprises a particular structure, as recited above, that allows for a multi-access system comprising: a system for receiving data packets from a plurality of computers; a packet-call connection system for interfacing with one or more radio communication terminals; and a multi-access routing system for routing data packets from a multimedia system to the radio communication terminals according to a slot assignment methods and wherein the receiving system comprises: a plurality of physical data link control

circuits provided in one-to-one correspondence with the plurality of computer, each of said physical data link control circuits controlling a corresponding physical data link; a TCP/IP control circuit to perform a TCP/IP protocol function on data packets transmitted from the plurality, of physical data link control circuits; a command/response control circuit for performing/responding to a command of the computers transmitted from the TCP/IP control circuit; and a data control circuit for sorting and buffering data transmitted from the TCP/IP control circuit.

This is neither taught nor suggested by the prior art.

Claim 20 is allowable based on their dependence on independent claim 19.

Claim 23 recites a data transmission system with a structure as defined in the specification (pages 6-14) including at least one personal computer; and a multi-access system including or coupled to a communication device, the multi-access system coupled to the personal computer through a Bluetooth connection; wherein data packets are transmitted between the personal computer and the communication device through the Bluetooth connection, wherein the data packets are sent from the communication device for transmission via an air interface to the Internet, wherein the multi-access system comprises: a system for receiving data packets from a plurality of computers; a packet call connection system for interfacing with one or more radio communication terminals; and a multi-access routing system for routing data packets from a multimedia system to the radio communication terminals according to a slot assignment method, and wherein the multi-access routing system: sets a slot assignment method according to a command of at least one of the computers, assigns a slot to said one of the computers according

to the set slot assignment method, and routes data packets associated with a same call between said one of the computers and multiple ones the radio communication terminals based on said a same destination IP address and a same data link address associated with each of the packets.

The prior art teaches a data transmission system including at least one personal computer; and a multi-access system including or coupled to a communication device, the multi-access system coupled to the personal computer through a Bluetooth connection; wherein data packets are transmitted between the personal computer and the communication device through the Bluetooth connection, wherein the data packets are sent from the communication device for transmission via an air interface to the Internet.

However, applicant's independent claim 23 comprises a particular structure, as recited above, that allows for a multi-access system comprising: a system for receiving data packets from a plurality of computers; a packet call connection system for interfacing with one or more radio communication terminals; and a multi-access routing system for routing data packets from a multimedia system to the radio communication terminals according to a slot assignment method, and wherein the multi-access routing system: sets a slot assignment method according to a command of at least one of the computers, assigns a slot to said one of the computers according to the set slot assignment method, and routes data packets associated with a same call between said one of the computers and multiple ones the radio communication terminals based on said a same destination IP address and a same data link address associated with each of the packets.

This is neither taught nor suggested by the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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Art Unit: 2617

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Conclusion

II. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to BRANDON J. MILLER whose telephone number is (571)272-

7869. The examiner can normally be reached on Mon.-Fri. 8:00 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, George Eng can be reached on 571-272-7495. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/George Eng/

Supervisory Patent Examiner, Art Unit 2617

/Brandon J Miller/ Examiner, Art Unit 2617

November 27, 2009